

Ovchinnikov, O. N.
THE INFLUENCE OF THE ENTRY VELOCITY OF
PROFILE ON THE PERFORMANCE OF A DIFFUSER.
[1961] 27p. (10 figs. omitted) 3 refs.
[DSR LLU] M 1841.
Order from OTS or SLA \$2.60

61-13165

Trans. of Politekhicheskii Institut Leningrad.
Trudy 1955, no. 176, p. 175-188.

DESCRIPTORS: *Fluid flow, Mathematical analysis,
Velocity, Turbulence, *Diffusers, Tests.

The present paper expounds the results of S. M. Targ
for the case of axisymmetric flow with an arbitrary
velocity profile at entry, and it also includes the re-
sults of experiments on the performance of two dif-
fusers with convex and concave velocity profiles at
entry. The analysis indicates that from the point of
view of diffusion losses, it is better to have a convex
velocity profile at the entrance, while from the point
(Mechanics--Aerodynamics, TT, v. 6, no. 1) (over)

61-13165

I. Ovchinnikov, O. N.
II. DSR LLU M.1841

161663

Office of Technical Services

Konstantinov, N. I.
COMPARATIVE INVESTIGATION OF THE FRIC-
TIONAL STRESS ON THE SURFACE OF A BODY
(Sравnitel'noye issledovaniye Napryazheniya Tron'ya
na Po'vorkhnosti Tela). Feb 61 [17]p. RTS-1500.
Order from LC or SLA ml\$2.40, ph\$3.30 61-15906

Trans. of Politehnicheskii [Institute], L[eningrad].
Trudy (USSR) 1955, no. 176, p. 201-213.

This paper describes preliminary results of tests on
comparative measurements of surface friction in a
turbulent boundary layer on an experimental plate
with various longitudinal pressure distributions.

(Mechanics, TT, v. 3, no. 9)

61-15906

1. Surfaces--Friction
2. Turbulent boundary layer--
Friction
- I. Konstantinov, N. I.
- II. RTS-1500
- III. Department of Scientific
and Industrial Research
(R. Brit.)

151986

Office of Technical Services

Zamotorin, M. I.
 SOLUBILITY OF COPPER AND MAGNESIUM IN
 ALUMINIUM IN THE SOLID STATE AT DIFFERENT
 TEMPERATURES, tr. by S. Klemantaski. 31 May 61
 [13]p. 12 refs. FRI Trans. no. 157; [DSIR NLL]
 M. 4354.
 Order from OTS or SLA \$1.60

62-13164

Trans. of Politekhn[icheski] Inst[itut] Leningrad.
 Trudy (USSR) 1955, no. 180, p. 32-37.

DESCRIPTORS: Solid state physics, *Aluminum alloys,
 *Magnesium alloys, *Copper alloys, *Solubility,
 Fluidized solids, Atomic structure, Chemical analysis,
 Chemical bonds, Chemical reactions, Phase studies,
 *Transition temperature.

The chemical interaction between atoms of the solvent
 and dissolved components is accompanied by geo-
 metrical transformations of the volume of the solid
 solution with the formation of spatial cusps. (Author)

62-13164

- I. Title: Duralumin
- I. Zamotorin, M. I.
- II. FRI Trans-157
- III. DSIR NLL M. 4354
- IV. Fulmer Research Inst.,
Ltd. (Gt. Brit.)

(Metallurgy, TT, v. 7, no. 8)

Office of Technical Services

Zamotorin, M. I.
JOINT SOLUBILITY OF MAGNESIUM AND ZINC IN
ALUMINIUM IN THE SOLID STATE, tr. by
S. Klementaaki. 9 June 61 [12]p. 11 refs. FRI Trans.
no. 158; [DSIR NLL] M. 4352.
Order from OTS or SLA \$1.60

62-13163

Trans. of Politekh[n]icheski] Inst[itut] Leningrad.
Trudy (USSR) 1955, no. 180, p. 38-43.

DESCRIPTORS: Solid state physics, *Aluminum, *Zinc,
*Magnesium, *Solubility, Atomic structure, Fluidized
solids, Chemical reactions, Chemical analysis,
Chemical equilibrium.

The data obtained show that the solubility isotherms
are not in the form of smooth curves with a minimum,
as would follow from Hume-Rothery's ideas. On the
polythermal saturation curve and on solubility iso-
therms relative solubility maxima are found, which are
(Metallurgy, TT, v. 7, no. 8)

(over)

62-13163

- I. Zamotorin, M. I.
- II. FRI Trans-158
- III. DSIR NLL M. 4352
- IV. Fulmer Research Inst.,
Ltd. (Gt. Brit.)

Office of Technical Services

Dobretsov, L. N. ON THE PROBLEM OF THE THEORY OF SURFACE IONIZATION (K Voprosu o Teorii Poverkhostnoi Ionizatsii) tr. by Sergey Shewchuck. Jan 62 [33]p. (foreign text included) 7 refs. Order from OTS or SLA \$3.60 UCRL Trans-783 Trans. of Politeknicheskii Institut, Leningrad. (Trudy (USSR) 1958, no. 194, p. 143-153. DESCRIPTORS: *Electrodes, Surface properties, *Ionization, Theory, Thermodynamics, Thermionic effect, Atoms, Ions, Emissivity. (Physics--Theoretical, TT, v. 9, no. 7)	62-33194 I. Dobretsov, L. N. II. UCRL-Trans-783 III. Lawrence Radiation Lab., U. of California, Berkeley Office of Technical Services
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62-13158

Gonchar, V. N.
INFLUENCE OF COPPER ON THE AGEING OF AL-
LOYS OF ALUMINIUM WITH MAGNESIUM AND
ZINC, tr. by S. Klemantaski. 19 May 61 [26]p. 8 refs.
FRI Trans. no. 156; [DSIR NLL] M. 4341.
Order from OTS or SLA \$2.60

62-13158

Trans. of Politekh[icheskii] Inst[itut] Leningrad.
Trudy (USSR) 1959, no. 202 [p. 43ff].

DESCRIPTORS: *Aluminum alloys, Magnesium alloys,
*Zinc alloys, *Age factors, *Copper, Chemical analy-
sis, Mechanical properties, Heat treatment.

The greatest effect of ageing in the ternary system
aluminium -magnesium-zinc is observed in alloys
lying on the Al-T phase section. But in alloys lying on
the excess zinc or magnesium side of this section
ageing is developed to a lesser degree. This shows
(Metallurgy--Structural, TT, v. 7, no. 8) (over)

- I. Gonchar, V. N.
- II. FRI Trans-156
- III. DSIR NLL M. 4341
- IV. Fulmer Research Inst.,
Ltd. (Gt. Brit.)

Office of Technical Services

The Methods of Study and the Utilization of
Ore Indicators in Prospecting for Concealed Ore
Bodies, by N. A. Nikiforov.

RUSSIAN, per, Tashkent. Politekhmicheskii
Institut. Trudy, No 6, 1959, pp 178-190.

NRC-C-11496

NTC 72-60822-06I

Jan 73

Application of Karman's Method for Calculation of
Turbulent Boundary Layer Parameters in a Gas Flow
Past a Plate, by L. G. Loytsyanskiy, Yu. V. Lapin, 1961

RUSSIAN, per, Trudy Politikhnicheskiy Inst, No 217,
1961, pp 7-16.

*FTD-TT-62-1768

Sci - Phys
5 Dec 62

Temperature Stresses in a Thin Elastic Plate
with the Presence of a Source of Heat on the
Contour of the Plate, by V. R. Kul'bakh,
RUSSIAN, per, Trudy Politekhicheskoy Inst.
Seriya A, No 200, 1963, pp 49-61.

PI00073967

FTD-IT-66-367

Sci-Phys

Mar 67

320,275

Effect of Unequilibrated Dissociation
on Flow Around Blunt-Nosed Bodies,
by Yu. P. Lun'kin, M. P. Shtengel', 7 pp.
RUSSIAN, per, Trudy Politekhmicheskoy Instit
Leningrad, No 230, 1964, pp 7-12. 9698664
FTD-TT-65-649

S&I-BQM
RRV 65

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Plankton Distribution in the Area of the Georges
Bank and the Browns Bank in 1962, by
Ye. A. Pavshchik, M. A. Gogoleva. 43 pp.
RUSSIAN, per, Trudy PINRO, Vol 16, 1964,
pp 25-48.

Dept of Interior
Bureau of Commercial Fisheries
Office of Foreign Fisheries
A-30-July 1969-No 113
On Loan

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Sci-B&M
Nov 69

397,292

Seasonal Phenomena in the Plankton of the
Labrador Shelf, the Grand Bank off Newfound-
land and Flemish Cap, by T. N. Semenova. 44 pp.
RUSSIAN, per, Trudy PINRO, Vol 16, 1964,
pp 49-77.
NAV/NOO/Tran-421-69

Sci-Ear Sci
Dec 69

397,362

Distribution of Euphausiid in the Great Newfoundland Bank Area Depending on the Dynamics of Water Mass, by S. S. Drobysheva. 19 pp.

RUSSIAN, per, Trudy PINBO, Vol 16, 1964, pp 79-88.

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Office of Foreign Fisheries

A-30-July 1969-No 23

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Sci-B&M

Nov 69

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Problem of Alloying Heat Resistant Nickel
Base Alloys, by V. G. Khoroshaylov, 11 pp.
RUSSIAN, per, Trudy Politekhmicheskoy Instit
Leningrad, No 234, 1964, pp 89-95.

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FTD-TT-65-890

Sci-Engr
Nov 65

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The Conditions for the Formation of the Arctic-Norwegian School of Cods from the 1959, 1960 and 1961, Generations in the First Year of Life, by A. S. Baranenkov, N. S. Khokhlin.

RUSSIAN, per, Trudy PIERO, Vol 16, 1964, pp 195-214.

Dept of Navy NOO Trans 423

Sci-B&M
Nov 69

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Changeability on Ice Conditions of the Labrador
Sea and Davis Strait, by A. A. Lebedev. 15 pp.
RUSSIAN, per, Trudy PIMRO, Vol 16, 1964,
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Sci-Mar Sci
Nov 69

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methacrylate, by Yu.N. Suloyev, A.G. Belkin.
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No 3, 1960, pp 422-428. P911020266
AEC BNL tr-75

Sci/Chemistry
Sep 66

309,370

Investigation of Concentration Dependence
of the Intensity of Aluminum and Zinc Lines
in Contact-pulse Sampling of the Al-Zn
Alloy Substance, by D. P. Milenina,
N. K. Rudnevskiy, et al. 6 pp.
RUSSIAN, per, Trudy Po Khimii i Khimi-
cheskoy Tekhnologii Gor'kiy, No 1, 1963,
pp 8-11. 9700069
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Sci/HQM
May 66

299,481

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New Capabilities of Spectral Analysis of Metals
and Alloys With the Use of Preliminary Batching
by Contact Spark Discharge, by K.V. Gudkova,
K.I. Taganov, et al. 9 pp.

RUSSIAN, per, Trudy Po Khimii i Khimicheskoy
Tekhnologii Gor'kiy, No 1, 1963, pp 26-30.

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Sci/M&M

Aug 66

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Investigation of Characteristics of Inflow
of AL-ZN Alloy Material into an AC Arc
Discharge and Concentration Dependence of
the Intensity of Aluminium and Zinc Lines,
by E. S. Obukhova, N. K. Puznovskiy. 9 pp.
RUSSIAN, per, Trudy Po Khimii i Khim.
Tekhnologii, No 1, 1963, pp 43-46. 9700182
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Sci/MQM
May 66

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Turbulent Boundary Layer in a Gas Flow With
Heat Transfer and a Prandtl Number Different
From Unity, by Yu. V. Lapin, 15 pp.

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imeni M. I. Kalinina Tekh Gidromekh, No 217,
1961, pp 27-36. 9683273

PTD-TT-63-284

Sci-Phys
Jun 63

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Power Machine Construction,

RUSSIAN, for, Trudy Politeknicheskoy Institut, 1962
No 221, pp 5-46, 103-109.

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PL-480

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Sci

ENE 63

Jul

On the Problem of the Nature of Phase Transformations
in Metals and Alloys, by N. M. Ivanova, T. A. Lebedev.

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pp 108-114.

*AEC

Sci - Mat & Met

Aug 63

Speed Distribution of Liquid Metal in an Annular
Channel of Rectangular Section, by V. I. Meshburd,
13 pp.

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FTD-HT-66-526

Sci/Mech, Indus, Civil & Mar Engr

Jan 68

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Plotting the Performance Characteristics of
Radial-Axial Inward Flow Turbines,
by K. P. Dvoretzkiy
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No 264, 1966, pp 79-83.
*PTD-RT-23-518-68

Sci/Mechanical Engr
July 68

Studying the Movement of a Liquid in a Jet Tube,
by L. N. Trifonov. 15 pp.
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Sci/Engr
Jun 66

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Solubility of Calcium Sulfate in Mixes of Salts,
Generally Occurring in Natural Waters, by A. I.
Morozova, G. N. Pirova, 16 p.

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pp 151-165.

SLA 59-17637

Sci
Feb 60
Vol 2, No 10

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The Active Mass of a Zinc-Silver
Storage Battery, by M. F. Stakunov.
RUSSIAN, per. (Trudy, Politehnicheskoye
Institut Khimicheskoy, Vol 134, 1962,
pp 3-16
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Sri-Elec
Oct 65

• Book of Liberations on Slave Properties
of the United-States Government in
Planting Districts, by L. A. Seward,
M. H. Mackintosh.
WASHDC, gov. (Grady, College Park, Md.)
United States Govt. (Grady, College Park, Md.) Vol 134, 1932,
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#10-107-55-185

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The Dynamics of the Production of Volatile
Substances in Thermal Decomposition of Oil
Shale, by A. Ya. Aarna, 11 pp.

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ATS-71M39R

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Sci

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Accumulation of Amorphous Silica in Soils, by N.
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Vol XLIV, 1954, op 262-280.

CSIRO 4140

Sci - Geophys
Aug 62

211, 212

(FED 21600)

A New Program for the Latitude Service and Its Trial
at Poltava, by Ye. P. Fedorov, 4 pp.

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CIA/FED/U-6118

USSR

Scientific - Geophysics, gravimetry, fluctuations in
latitude

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Observatorii, Vol VIII, 1959, pp 3-89; 90-151,
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AID SIR-3277

Sci - Astron
May 60

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Problems in the Design of Cooled UHF
Mixers, by V. N. Alfeyev.
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No 14, 1965, pp 61-71.
*FTD-HT-67-375

Sci - Elect & Elec
Engr
Mar 67

The Spotty Tundras of the Anadyr District,
by V. B. Sochava, 28 ~~5~~ pp.

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1930, Leningrad, ~~pp~~ 51-68

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CIA/FDD/X-1741

USSR -
Scientific - Geophysics
Geographic -

Jul 55 CTS

Glazov, S. P.
CATALOG OF ASTROPOLAR POINTS OF THE PECHORA
TERRITORY (Katalog Astronomicheskikh Puntov na
Pechorskoye Kraye). [1962] [140p. ACIC 1 D. 2.
Order from OES on SLA 810,50 62-1558

Trans. of [Akademiya Nauk SSSR, Polymiya i Komi-
siya. Trudy] 1962, v. 10.

DESCRIPTORS: Catalogs, Astronomy, Astronomical
data, Geography, Trigonometry, Geodesics, Geodetic
astronomy, USSR.

(Unimicrofilm)

62-1558

- I. Table of points of the Pechora Territory.
- II. ACIC 1 D. 2.
- III. Astronomical Catalog of the Pechora Territory.

Office of Technical Services

Distribution of White Whales in the European-
Asiatic North, by S. K. Klumov

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parts 1 to 71, Moscow/Leningrad, 1936.

*Navy Tr 409/110397

Sci - Biology
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Middle Devonian Rugose Corals of the Northern
Urals; by E. D. Soshkina, 11 pp.

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SSSR, No 28, 1936, pp 15-21.

Dept of Interior
QE3 E57 No 43

Sci - Geophys

Sep 61

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The Sexual Cycle and Spermatogenesis of the Cod
C, by V. P. Sorkin. 24 pp.
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vatel'skiy Institut Morskogo Rybnogo Khozyaistva
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SLA TT-64-19155

Sci/B&M
Jul 66

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Biological Groups of Murman Herring (*Clupea harengus harengus*) according to the Structure of Winter Rings on the Scales, by P. A. Marashkintseva, 21 pp.

RUSSIAN, per, Trudy Polyarnyy Nauch Issled
Instit Morskogo Ryb Khoz i Okeano, Vol I,
1938, pp 74-87.

Dept of Interior US Fish & Wildlife Service
SH211 E82 No 286 Dept of Int
167,644

Sci - Biol
8-63

The Herring With low vertebral count (Glypto Harengus pallasi Val.) of the Barents and Kara Seas, by V. F. Esipov, 12 pp.

RUSSIAN, per, Trudy Polyarnyy Nauch-Issled Inst
Morskogo Rybnogo Khoz i Okeanograf, No 1, 1938,
pp 149-155.

OTS 60-51149
PL-480

Sci - Biol

207, 685-

Jul 62

PST 357

The Feeding of the Haddock of the Murman Coast
in Connection with the Bottom Fauna, by V.I.Zatsepin.
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Morskogo Rybnogo Khozyaistva i Okeanografii, No.3
pp.39-98, 1939.
*OTS Vol.16, No.3

Aug 66

The Feeding of the Cod in the Southern Part of
the Barents Sea, by V. J. Zatsypin, N. S. Petrova.

RUSSIAN, per, Trudy Polyarnyy Nauch-Issled
Morskogo Rybnogo Khoz i Okean, No 5, 1939,
pp 1-171.

*Fisheries Res Bd of Canada
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Sci - Biol/Med Sci
Mar 64

The Reproduction and Life-Cycle of the Murman Herring
(Clupea harengus harengus L.), by T. S. Rass, 74 pp.

RUSSIAN, per, Trudy Polyarnyy Nauch-Issled Inst
Morskogo Rybnogo Khoz i Okeanograf, No 6, 1939,
pp 93-159.

OTS 60-51149
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Sci - Biol

Jul 62

PST 357

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Forecasting the Stock Available and the
Conditions for Trawl Fishing, by N. A. Maslov,
24 pp.

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Institut Morskogo Rybnogo Khoz i Okeanografii,
No 10, 1957, pp 5-29.

NRCC C-3114

Sci

Apr 61

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OTS, Vol III, No 12

On Improving the Methods of Making Long-Term Forecasts of the Condition of Stocks of Cod and Haddock, by N. A. Maslov.

RUSSIAN, per, Trudy Poliarnovo Nauk Issled Inst Morskogo Rybnogo Khozaystva i Okeanografii (PIERO), No 10, 1957, pp 30-53.

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QH301 C273 No 221

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Comparison of the Abundance of Year-Classes of Cod and Haddock in the Barents Sea, As Made From a Quantitative Survey of the Young Fish and From the Commercial Fishery, by A. S. Baranenkova,

RUSSIAN, per, Trudy Poliarnovo Nauk Issled Inst Morskovo Rybnovo Khoziaistva i Okeanografii, No 10, 1957, pp 54-77.

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Sci - Biol
Sep 60

NRCC C-3093
Vol III, No 12

127,960

Year-to-Year Changes in the Food of Cod in the
Brents Sea, by W. S. Grinkevich, 21 pp.

RUSSIAN, per, Trudy Polyarnyy Nauch-Issled
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Sci

Apr 61

OTS, Vol III, No 12

162³257

The Effect of Some Aspects of the Biology of
Euphausiacea Upon the Summer Feeding Conditions
for Cod in the Barents Sea, by S. S. Drobysheva,
18 pp.

RUSSIAN, per, "Trudy Polarnyvo Nauk-Issled
Institut Morakovo Rybnovo Khoz i Okeanograf,
No 10, 1957, pp 106-124.

Dept of Interior
QH301 C273 No 224

Sci - Biol
17 Feb 61

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On the Migrations and Spawning of the Barents Sea
Capelin in 1953 and 1954, by V. S. Prokhorov.

RUSSIAN, per, Trudy Polyarnogo Nauchno-Issled
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Dept of Interior
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Sci - Biol

Jul 60

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THE CURRENTS OF THE BARENTS SEA, BY A. I. TANTSYORA.

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NLL M. 3785

SCI - GEOPHYS

OCT 62

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Seasonal and Long-Term Changes of the Temperature
and Salinity of the Waters of the Cold Bear
Island Current, by R. N. Sarynina.

RUSSIAN, per, Trudy Polyarnyi Nauch-Issled Inst
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No 2(12), 1960, pp 14-18.

Ministry of Agri
(Loan)

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Sept 64

Cod Sexual Cycle and Spermatogenesis, by
V. P. Sorokin.

RUSSIAN, per, Trudy Polyarnyy Nauchno-Issledovatel'-
skiy Institut Morskogo Rybnogo Khozyaystva i Okeanograf,
Vol XII, 1960, pp 71-87.

*Ministry of Agriculture

Sci - Biol/Med Sci

Jun 63

Azbelev, V. V.

INFORMATION ON THE BIOLOGY AND SURVIVAL
OF SALMON OF THE KOLA PENINSULA (Materialy
po Biologii Semgi Kolskogo Poluostrova i Ee
Vyzhivaemosti) tr. by W. E. Ricker. Apr 63, 19p.
(figs. tables omitted). FRBC Trans. Series No. 440.
Order from NRCC

NRCC C-4439

Partial trans. (p. 5-9, 19-27, 51-65) of Polyarnyi
Nauchno-Issledovatel'skii Institut Morskogo Rybnogo
Khozyaistva i Okeanografii. Trudy (USSR) 1960
v. 12, p. 5-70.

DESCRIPTORS: Biology, *Salmonidae, Ecology,
Marine biology, *Fishes, Rhythm (Biology).

(Biological Sciences--Zoology, TT. v. 10, no. 6)

63-17847

1. Title: Kola Peninsula
- I. Azbelev, V. V.
- II. FRBC Trans-440
- III. NRCC C 4439
- IV. Fisheries Research
Board of Canada

Office of Technical Services

The Fishery Characteristics of the West Spitsbergen
Area, by T. S. Berger.

Polyacryl
RUSSIAN, per, Trudy Nauchno-Issled Inst Morskogo
Rybnogo Khoz i Okean, No 1(15), 19761.

Ministry of Agri
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Sept 64

Method of Prediction of the Water Temperature in the
Barents Sea for Cold Seasons, by A. A. Lebedev,
V. T. Zhevnovaty. ✓
RUSSIAN, per, Trudy Poliarnyi Nauchno-issledovatel'-
skii Institut Morskogo Rybnogo Khoz'istva i Okean-
ografi, No 4(22), 1962, pp 29-30. *Okean-*

*Min of Agri

Sci-Earth Sci & Astron
March 64

Investigation Concerning Spawning Grounds of
the Atlantic-Scandinavian Herring, by

I. G. Yudanov.

RUSSIAN, per, Trudy Polyarnyi Nauchno-Issled
i Proektnyi Inst Morskogo Rybnogo Khoz i
Okean imeni N. M. Knipovicha, Vol XIV, 1962,
pp 5-49.

*Translation Program

Branch of Reports

Seattle, Washington

Sci

Jul 64

Experience in Incubation of Eggs of the
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